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| APPLICATION NO.  | FILING DATE    | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
|--|----------------|----------------------|---------------------|------------------|
| 10/018,642   | 12/19/2001     | Krigel H. Youval     | 22608.4             | 5177             |
| 716 7.   | 590 04/23/2003 |                      |                     |                  |
| COX & SMITH INCORPORATED<br>SUITE 1800<br>112 EAST PECAN STREET<br>SAN ANTONIO, TX 782051536 |                | . [                  | EXAMINER            |                  |
|  |                |                      | LAIR, DONALD M      |                  |
|  |                | -                    | ART UNIT            | PAPER NUMBER     |
|  |                |                      | 2858                |                  |

Please find below and/or attached an Office communication concerning this application or proceeding.

| A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.  Entranspace is time rary be available under the provisions of 3° CFR 1/38(a). In no event, however, may a raryly be timely field  Entranspace is time raryly be seatable under the provisions of 3° CFR 1/38(a). In no event, however, may a raryly be timely field  If the period for reply specified above is less shart brity (30) days, a reply whilin the statulory minimum or bin in (50) days will be considered shrely.  If the period for reply specified above, the maximum statulory priod will region \$50.00 MONTHS from the making and a considered shrely.  If the period for reply specified above, the maximum statulory priod will region \$50.00 MONTHS from the making and a region and a region of the communication.  Fairne is egyly whitin the sect or esterned product for reply whitin the sect or esterned priod for reply whitin the section and the communication.  Paper Status  1) Responsive to communication(s) filled on 28 March 2002.  2a) This action is FiNAL.  2b) This action is non-final.  3 Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex partie Quayle, 1935 C.D. 11, 453 O.G. 213.  Disposition of Claims  4) Claim(s) 1.5 is/are pending in the application.  4a) Of the above claim(s)   |  |   |  |  | /     |  |  |
|--|--|---|--|--|-------|--|--|
| Examiner Donald M. Lair  - The MAILING DATE of this communication appears on the cover sheet with the corresp indence address Period for Reply  A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION, - barriagen of time may be available under the provisions of 3 PC RF 1,755(b). In no errent, however, may a reply be timely filled - time period for reply seedled above, be maximum stantory prior of will apply and will expire SX (5) MXM filts from the mailing due of his communication 1 The period for reply a seedled above, be maximum stantory prior of will apply and will expire SX (5) MXM filts from the mailing due of his communication 1 The period for reply a seedled above, be maximum stantory prior of will apply and will expire SX (5) MXM filts from the mailing due of his communication 1 Any reply received by the Office site than three modes after the mailing date of his communication, even it timely filed, may reduce any analyse and parent term adjunctives 2 This action is FINAL 2 Disposition of Calms  1 Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.  Disposition of Calms  4 Claim(s) 1.5 is/are pending in the application 4a) Of the above claim(s) is/are withdrawn from consideration.  5   Claim(s) is/are rejected 7   Claim(s) is/are objected to 8   Claim(s) is/are objected to by the Examiner 10   The grooposed drawing correction filed on is all paproved by disapproved by the Examiner If approved, corrected drawings are required in reply to this Office action.  12   The cath or declaration is objected to by the Examiner If approved, corrected drawings are required in reply to this Office action 12   The ca  | •  |   | Application No.  | Applicant(s)   | 1     |  |  |
| Donald M. Lair  Donald M. Lai  |  | Office Action Commence  | 10/018,642   | H. YOUVAL, KRIGEL  |       |  |  |
| The MAILING DATE of this communication appears on the cover sheet with the corresp indence address — Period for Reply  A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.  Exercisor of terminy be available used for the provisions of 3 CFR 1/35(t), it no event, however, may a reply be timely fled in the period for reply appelled above is lists than thirty (30 days, vill be considered simely, if the period for reply specified above is lists than thirty (30 days, vill be considered simely, if the period for reply is appelled above, the maintum statutory period vill apply and vill exploration of the period of the period for reply specified above is less than the provision of the period of the period for reply specified above is the statutory period vill apply and vill apply the period of the period      | •  | Office Action Summary   | Examiner   | Art Unit   |       |  |  |
| A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE ② MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.  - and CSX (9) MONTHS from the mailing date of his communication if the period for reply specified above, the maximum statutory period will apply and well expire SX (9) MONTHS from the mailing date of his communication If NO period for reply specified above, the maximum statutory period will apply and well expire SX (9) MONTHS from the mailing date of this communication If NO period for reply specified above, the maximum statutory period will apply and well expire SX (9) MONTHS from the mailing date of this communication Any reply received by the Office inter than there mention after the mailing date of the communication, even if limitly field, may reduce any search gather term adjustment. See 37 GFR 1.754(b).  Status  1) M Responsive to communication(s) filled on 26 March 2002. 2a) This action is FINAL. 2b) M This action is round in the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.  Disposition of Claims  4) Claim(s) Si safer epending in the application 4a) Of the above claim(s) is a safer withdrawn from consideration 5) Claim(s) si safer epiceted 7) Claim(s) is a safer objected to 8) Claim(s) are subject to restriction and/or election requirement Application Papers  9) The specification is objected to by the Examiner 10) The drawing(s) filed on 19 December 2001 is lare: a) accepted or b) objected to by the Examiner Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  11) The proposed drawing correction filed on is approved by the Examiner Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  11) Some * Coll None of: - 1 Certified copies of the priority documents have been received in Application No 2 Certified copies of the priority documents have been received in Application No 3 Copies of the certified copies of the priority documents have b   |  |   |  | l l  |       |  |  |
| A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 2 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.  Emerance at an enemy be briefly and with the provision of 3° CFR 175(a). In no event, however, may a reply be timely filed  Emerance at a stem reply be solidate under the provisions of 3° CFR 175(a). In no event, however, may a reply be timely filed  If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be condidered timely.  If the period for reply specified above, the maximum statutory priod will upply and will expire 30° (8) MONTHS from the making date of this communication.  False be reply within the set to extended preod for reply will, by statutory minimum or the file of the communication of the communication of the communication.  False be reply within the set to extended preod for reply will, by statutory minimum or the set of the communication of the communication.  False be reply within the set of extended preod for reply will, by statutory minimum or the set of the communication of the communication.  All the period for the set of communication of the communication of the communication.  This action is FINAL.  2b) This action is non-final.  3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.  Disposition of Claims  4) Claim(s) 1-5 is/are pending in the application.  4a) Of the above claim(s) is/are explicated.  Claim(s) 1-5 is/are rejected.  7) Claim(s) is/are rejected to.  8) Claim(s) 1-5 is/are rejected to.  8) Claim(s) 1-5 is/are rejected to.  8) Claim(s) 1-5 is/are rejected to by the Examiner.  10) The groups defined the proving the priority did and the proving the prov |  |   | appears on the cover sheet with  | h the corresp ndence address   |       |  |  |
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| 5) □ Claim(s) is/are allowed. 6) ☒ Claim(s) is/are objected to. 7) □ Claim(s) is/are objected to. 8) □ Claim(s) are subject to restriction and/or election requirement. Application Papers  9) □ The specification is objected to by the Examiner.  10) ☒ The drawing(s) filed on is/are: a) ☒ accepted or b) □ objected to by the Examiner.  Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  11) □ The proposed drawing correction filed on is: a) □ approved b) □ disapproved by the Examiner.  If approved, corrected drawings are required in reply to this Office action.  12) □ The oath or declaration is objected to by the Examiner.  Priority under 35 U.S.C. §§ 119 and 120  13) □ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  a) □ All b) □ Some * c) □ None of:  1. □ Certified copies of the priority documents have been received in Application No  3. □ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).  * See the attached detailed Office action for a list of the certified copies not received.  14) □ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).  a) □ The translation of the foreign language provisional application has been received.  15) ☒ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 120 and/or 121.  Attachment(s)  b) ☐ Notice of References Cited (PTO-892)  4) ☐ Interview Summary (PTO-413) Paper No(s)  | <i>,</i> —   | · · · · · · · · · · · · · · · · · · ·   |  |  |       |  |  |
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| 10) ☐ The drawing(s) filed on 19 December 2001 is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  11) ☐ The proposed drawing correction filed on is: a) ☐ approved b) ☐ disapproved by the Examiner.  If approved, corrected drawings are required in reply to this Office action.  12) ☐ The oath or declaration is objected to by the Examiner.  Priority under 35 U.S.C. §§ 119 and 120  13) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  a) ☐ All b) ☐ Some * c) ☐ None of:  1. ☐ Certified copies of the priority documents have been received.  2. ☐ Certified copies of the priority documents have been received in Application No  3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).  * See the attached detailed Office action for a list of the certified copies not received.  14) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).  a) ☐ The translation of the foreign language provisional application has been received.  15) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.   | • •  | ·   |  |  |       |  |  |
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## **DETAILED ACTION**

## Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 2. Claims 1 3 are rejected under 35 U.S.C. 102(b) as being anticipated by Sullivan (US-4,959,792).
- 3. In regards to Claims 1 and 2, Sullivan teaches an apparatus for testing multi-conductor wire harnesses comprising a computer having a controller card (Fig. 4, element 20), a multiplexer card (Fig. 4, element 21), a first multiple wire connector module electrically connected to the multiplexer (Fig. 4, element 17), wherein the controller card controls the multiplexer (Fig. 4).
- 4. In regards to Claim 3, Sullivan teaches an apparatus comprising all of the elements described above, further comprising a second connector module (Fig. 5, element 18) wherein the first and second connector modules are electrically connected to each other (Fig. 1).
- 5. Claims 4 and 5 are rejected under 35 U.S.C. 102(b) as being anticipated by Rockwell (US-5,072,185).
- 6. In regards to Claim 4, Rockwell discloses a process for creating a wire list comprising the steps of, selecting two wires, wherein software performs the function of the multiplexer (Fig. 4, element 215), sending a voltage at low current through the two wires, determining whether the

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wires are open or short, measuring the value and compares it to a set reference and determines the status as being open or short, and storing the results of the selected two wires and proceeding with the next set of wires (Column 2, line 65 - Column 3, line 19; Column 6, lines 7 - 58).

7. In regards to Claim 5, Rockwell teaches a process comprising the steps of copying the wiring diagram manual database to a temporary file, sorting the file by connector name, assigning manual pins to a test pin, creating a diagram manual to test interface diagram, creating a wire list in a database based on a test, and highlighting differences from the original wire list (Column 5, lines 14 - 22; Column 6, lines 7 - 58; Column 7, lines 54 - 58).

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## Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Donald M. Lair whose telephone number is (703) 305-4450. The examiner can normally be reached on Monday - Friday, 8 AM - 4:30 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, N. Le can be reached on (703) 308-0750. The fax phone numbers for the organization where this application or proceeding is assigned are 703-872-9318 for regular communications and 703-872-9319 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-1436.

Donald M. Lair Patent Examiner Art Unit 2858

April 15, 2003

PRIMARY EXAMINER